

09/486094
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1

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- 5 (A) NAME: RHONE-POULENC AGROCHIMIE
(B) STREET: 14-20 Rue Pierre BAIZET
(C) TOWN: LYONS
(E) COUNTRY: France
(F) POST CODE: 69009

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(ii) TITLE OF THE INVENTION: Gene coding for
androctonine, vector containing it and
disease-resistant transformed plants obtained

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(iii) NUMBER OF SEQUENCES: 11

(vi) COMPUTER-READABLE FORM:

- 20 (A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0,
Version #1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 110 base pairs
(B) TYPE: nucleotide

00486094-071700

2

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

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(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 1..75

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

AGG TCC GTG TGC AGG CAG ATC AAG ATC TGC AGG AGG AGG GGT GGT TGC 48
Arg Ser Val Cys Arg Gln Ile Lys Ile Cys Arg Arg Arg Gly Gly Cys
1 5 10 15
15 TAC TAC AAG TGC ACT AAC AGG CCA TAC TGAGCTCGEC GAGGCCAACG 95
Tyr Tyr Lys Cys Thr Asn Arg Pro Tyr
20 25
TGTCGACGGA TCCGG 110

20 (2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 106 base pairs

(B) TYPE: nucleotide

25 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

3

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 12..101

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

CCGTCGACGC C ATG GGT TTC GTG CTT TTC TCT CAG CTT CCA TCT TTC CTT 50

Met Gly Phe Val Leu Phe Ser Gln Leu Pro Ser Phe Leu

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1

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CTT GTG TCT ACT CTT CTT CTT TTC CTT GTG ATC TCT CAC TCT TGC CGT 98

Leu Val Ser Thr Leu Leu Leu Phe Leu Val Ile Ser His Ser Cys Arg

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15 GCC GGCGA

106

Ala

30

(2) INFORMATION FOR SEQ ID NO: 3:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 211 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

002720-46098760

4

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: 12..176

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCCTCGACGC C ATG GGT TTC GTG CTT TTT TCT CAG CTT CCA TCT TTC CTT 50

Met Gly Phe Val Leu Phe Ser Gln Leu Pro Ser Phe Leu

1 5 10

10

CTT GTG TCT ACT CTT CTT CTT TTC CTT GTG ATC TCT CAC TCT TGC CGT 98

Leu Val Ser Thr Leu Leu Leu Phe Leu Val Ile Ser His Ser Cys Arg

15 20 25

15 GCC AGG TCC GTG TGC AGG CAG ATC AAG ATC TGC AGG AGG AGG GGT GGT 146

Ala Arg Ser Val Cys Arg Gln Ile Lys Ile Cys Arg Arg Arg Gly Gly

30 35 40 45

TGC TAC TAC AAG TGC ACT AAC AGG CCA TAC TGAGCTCGGC GAGGCGAAGC 196

20 Cys Tyr Tyr Lys Cys Thr Asn Arg Pro Tyr

50 55

TGTCGACCGA TCCGG 211

25 (2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 75 base pairs

(B) TYPE: nucleotide

002720-16090160

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(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

5 (A) DESCRIPTION: /desc = "synthetic
oligonucleotide 1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

10 GCCTCGACGC GATGGGTTTC GTGCTTTTCT CTCAGCTTCC ATCTTTCCTT CTTGTGTCTA 60
CTCTTCTTCT TTTC 75

(2) INFORMATION FOR SEQ ID NO: 5:

(1) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 72 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

20 (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic
oligonucleotide 2"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

25 TCGCCCGCAC GGCAAGAGTA AGAGATCACA AGGAAAGAA GAAGAGTAGA CACAAGAAGG 60
AAAGATGGAA GC 72

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6

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 44 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic
oligonucleotide 3"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

AGGTCCCGTG GCAGGCAGAT CAAGATCTGC AGGAGGAGGG GTGG

44

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97 base pairs

(B) TYPE: nucleotide

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic
oligonucleotide 4"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

7

CCGGATCCGT CGACACGTTT GCCTCGCCGA GCTCAGTATG GCCTGTTAGT GCACTTGTAG 60
TAGCAACCAC CCCTCCTCCT GCAGATCTTG AACTGCC 97

(2) INFORMATION FOR SEQ ID NO: 8:

- 5 (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 85 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: other nucleic acid
- (A) DESCRIPTION: /desc = "synthetic
oligonucleotide 5"

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

AGGGCCCCCT AGGGTTTAAA CGGCCAGTCA GGCCGAATTC GAGCTCGGTA CCCGGGGATC 60
CTCTAGAGTC GACCTGCAGG CATGC 85

20 (2) INFORMATION FOR SEQ ID NO: 9:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 66 base pairs
 - (B) TYPE: nucleotide
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: other nucleic acid
- (A) DESCRIPTION: /desc = "synthetic

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8

oligonucleotide 6"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

5 CCCTGAACCA GGCTCGAGGG CGCGCCCTTAA TTAAAGCTT GCATGCCTGC AGGTCGACTC 60
TAGAGG 66

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 93 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic
oligonucleotide 7"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

20 CCGGCCAGTC AGGCCACACT TAATTAAGTT TAAACGCGGC CCGGGCGCGC CTAGGTGTGT 60
GCTCGAGGGC CCAACCTCAG TACCTGGTTC AGG 93

(2) INFORMATION FOR SEQ ID NO: 11:

25 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 93 base pairs
(B) TYPE: nucleotide
(C) STRANDEDNESS: single

00272046098460

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(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic
oligonucleotide 8"

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

CCGGCCTGAA CCAGGTACTG AGGTTGGGCC CTCGAGCACA CACCTAGGCG CGCCGGGGGCC

60

10 GCGTTTAAAC TTAATTAAGT GTGGCCTGAC TGG

93

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